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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/818,448	03/27/2001	Richard L. Firth	MS158544.1	2075
27195	7590	09/09/2004	EXAMINER	
AMIN & TUROCY, LLP 24TH FLOOR, NATIONAL CITY CENTER 1900 EAST NINTH STREET CLEVELAND, OH 44114			LIM, KRISNA	
			ART UNIT	PAPER NUMBER
			2153	

DATE MAILED: 09/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/818,448

Applicant(s)

FIRTH ET AL.

Examiner

Krisna Lim

Art Unit

2153

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) 19-32 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-8 is/are rejected.
- 7) ☒ Claim(s) 2 and 9-16 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

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1. Applicant's election with traverse of the Invention I claims 1-18 in the reply filed on 7/29/04 is acknowledged.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. [U.S. Publication No. 2002/0161673].

4. Lee et al. disclose (e.g., see Figs. 1-2) the invention substantially as claimed.

Taking claim 1 as exemplary claims, the reference discloses a system for communication over a protocol (a computer system of Fig. 1), comprising:

a) a content associated with a Uniform Resource Identifier (URI) to be exposed (web pages 103 associated with requests 102 of the web requester of Fig. 1); and

b) a class factory (a record 250 of Fig. 2, counter set of Fig. 7) comprising a plurality of identifiers (212, 214, 216, 218, 230, 232, 234, 236, 242 of Figs. 2-7) and associated registered listener object creator (210, 220, 240), at least one of the listener object creators adapted to create at least one listener object that facilitates exposure of the URI (e.g., see page 3, last paragraph to page 6, first paragraph).

5. Lee et al. do not explicitly mention the term class factory comprising a plurality of identifiers and associated registered listener object creator. It would have been obvious to one of ordinary skilled in the art at the time the invention was made to recognize that Lee's record 250 is in fact some kind of class factory because a class is a well known object-oriented programming which is a descriptive tool used in a program to define a set of attributes or a set of services that characterize any member of the

class. In this case, Lee's record would have been obviously a class factory as claimed language because Lee's record defines a set of attributes or a set of services (e.g., a requester field, a metadata field, and hyperlink field list), which is defined by a plurality of identifiers and associated objects.

6. As to claim 3, Lee et al. disclose an exposing component (e.g., web site) that exposes a resource (information) to access by one or more accessing application (web request, web site, metadata information of Fig. 1 and the abstract).
7. As to claim 4, Lee et al. further disclose the resource is at least one of, a service, an application and a content source, and the resource is accessible over a network (web request, web site, metadata information of Fig. 1 and the abstract).
8. As to claim 5, while Lee et al. disclose TCP/IP protocol (e.g., see page 4, left col. Line 7) for communication between computers in the system, Lee et al. does not explicitly mention HTTP, FTP or SMTP protocols. Using different protocols for different network system is well within one of ordinary skilled in the art. Moreover, such HTTP, FTP, SMTP protocols are known in the art also. Thus, such use of well know protocols in the computer network system would have been obvious to one of ordinary skilled in the art at the time the invention was made.
9. As to claims 6 and 7, Lee et al. disclose plurality of identifiers comprise one or more URIs (e.g., URLs page 1, left col. Last 10 line, to right col. Last line).
10. As to claim 8, Lee et al. disclose at least one of the listener object creators instantiates at least one listener object (e.g., see identifying and creating the object at 1010, 1015, 1025 and 1030 of Fig. 10a, Figs. 7-8), with at least one of listener object creators being software in execution.

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11. Claims 2 and 9-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The references are cited in the Form PTO-892 for the applicant's review.

A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of the application (see 35 U.S.C 133, M.P.E.P 710.02, 710.02(b)).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Krisna Lim whose telephone number is (703) 305-9672. The examiner can normally be reached on Monday-Friday from 7:30 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Glenton Burgess, can be reached at (703) 305-4772. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9700

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [glen.burgess@uspto.gov].

All Internet e-mail communication will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirement of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published

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in the Office Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

KI

September 6, 2004



KRISNA LIM
PRIMARY EXAMINER